

Patent
Attorney's Docket No. 028722-317

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Pere Santamaria

Application No.: 10/005,917

Filed: December 7, 2001

For: COMPOSITIONS AND METHODS USEFUL IN
AVIDITY THERAPY

Group Art Unit: 1633

Examiner: Unassigned

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**INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
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The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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By: 
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Date: April 15, 2002



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Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

1. Amrani et al. 2001. Expansion of the antigenic repertoire of a single T cell receptor upon T cell activation. *J. Immunol.* 167(2):655-66.
2. Amrani, A., J. Verdaguer, P. Serra, S. Tafuro, R. Tan, and P. Santamaria. 2000. Progression of autoimmune diabetes driven by avidity maturation of a T-cell population. *Nature.* 406:739.
3. Amrani, A., J. Verdaguer, B. Anderson, T. Utsugi, S. Bou, and P. Santamaria. 1999. Perforin-independent beta cell destruction by diabetogenic CD8⁺ T lymphocytes in transgenic nonobese diabetic mice. *J. Clin. Invest.* 103:1201.

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5. Bendelac, A., C. Carnaud, C. Boitard, and J. F. Bach. 1987. Syngeneic transfer of autoimmune diabetes from diabetic NOD mice to healthy neonates. *J. Exp. Med.* 166:823.
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21. McInerney, M., S. Rath, and C. Janeway. 1991. Exclusive expression of MHC class II proteins on CD45⁺ cells in pancreatic islets of NOD mice. *Diabetes* 40:648.
22. Miller, B. J., M. C. Appel, J. J. O'Neil, and L. S. Wicker. 1988. Both the Lyt-2⁺ and L3T4⁺ T cell subsets are required for the transfer of diabetes in non-obese diabetic mice. *J. Immunol.* 140:52.
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28. Schmidt, D., J. Verdaguer, N. Averill, and P. Santamaria. 1997. A mechanism for the major histocompatibility complex-linked resistance to autoimmunity. *J. Exp. Med.* 186:1059.
29. Serreze, D., and E. Leiter. 1994. Genetic and pathogenic basis of autoimmune diabetes in NOD mice. *Curr. Opin. Immunol.* 6:900.
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33. Thivolet, C., A. Bendelac, P. Bedossa, J. F. Bach, and C. Carnaud. 1991. CD8⁺ T cell homing to the pancreas in the nonobese diabetic mouse is CD4⁺ T cell-dependent. *J. Immunol.* 146:85.

34. Tisch, R., and H. McDevitt. 1996. Insulin-dependent diabetes mellitus. *Cell* 85:291.
35. Utsugi, T., J.-W. Yoon, B.-J. Park, M. Imamura, N. Averill, S. Kawazu, and P. Santamaria. 1996. MHC class I-restricted infiltration and destruction of pancreatic islets by NOD mouse-derived beta cell-cytotoxic CD8⁺ T-cell clones in vivo. *Diabetes* 45:1121.
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42. Wong, S., et. al. 1999. Identification of an MHC class I-restricted autoantigen in type 1 diabetes by screening an organ-specific cDNA library. *Nature Med.* 5:1026.
43. Yagi, H., M. Matsumoto, K. Kunimoto, J. Kawaguchi, S. Makino, and M. Harada. 1992. Analysis of the roles of CD4⁺ and CD8⁺ T cells in autoimmune diabetes of NOD mice using transfer to NOD athymic nude mice. *Eur. J. Immunol.* 22:2387.


These documents are being submitted before a first Office Action on the merits, therefore no fee is required under 37 C.F.R. § 1.97(b). In the event an Office Action is mailed by the United States Patent and Trademark Office prior to receipt of this Information Disclosure Statement, the Commissioner is authorized to debit Deposit Account 02-4800 for the fee required by 37 C.F.R. §1.17(p).

By citing the above references, Applicants do not acquiesce or admit that any of these documents are "prior art" under 35 U.S.C. Applicants specifically reserve the right, where appropriate, to antedate any of the cited documents by an appropriate showing under 37 C.F.R. §1.131, §1.604, §1.608 or any other suitable means.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

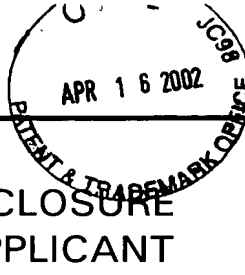
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Date: April 15, 2002



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

ATTORNEY'S DKT No.

028722-317

APPLICATION No.

10/005,91

APPLICANT

Pere Santamaria

FILING DATE

December 7, 2001

GROUP

1633

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U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)
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FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	no

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	Amrani et al. 2001. Expansion of the antigenic repertoire of a single T cell receptor upon T cell activation. <i>J. Immunol.</i> 167(2):655-66.		
	Amrani, A., J. Verdaguer, P. Serra, S. Tafuro, R. Tan, and P. Santamaria. 2000. Progression of autoimmune diabetes driven by avidity maturation of a T-cell population. <i>Nature.</i> 406:739.		
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SHEET 2 OF 3

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ATTORNEY'S DKT NO.

APPLICATION NO.

28722-317

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	Katz, J., C. Benoist, and D. Mathis. 1995. T helper cell subsets in insulin-dependent diabetes. <i>Science</i> 268:1185.
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	Kay, T., J. Parker, L. Stephens, H. Thomas, and J. Allison. 1996. RIP-b2-microglobulin transgene expression restores insulinitis, but not diabetes, in b2-microglobulinnull nonobese diabetic mice. <i>J. Immunol.</i> 157:3688.
	Lo, D., C. Reilly, B. Scott, R. Liblau, H. McDevitt, and L. Burkly. 1993. Antigen-presenting cells in adoptively transferred and spontaneous autoimmune diabetes. <i>Eur. J. Immunol.</i> 23:1693.
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	Tisch, R., and H. McDevitt. 1996. Insulin-dependent diabetes mellitus. <i>Cell</i> 85:291.
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Pere Santamaria

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	Utsugi, T., J.-W. Yoon, B.-J. Park, M. Imamura, N. Averill, S. Kawazu, and P. Santamaria. 1996. MHC class I-restricted infiltration and destruction of pancreatic islets by NOD mouse-derived beta cell-cytotoxic CD8 ⁺ T-cell clones in vivo. <i>Diabetes</i> 45:1121.		
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	Vyse, T., and J. Todd. 1996. Genetic analysis of autoimmune disease. <i>Cell</i> 85:311.		
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	Wicker, L., E. Leiter, J. Todd, R. Renjilian, E. Peterson, P. Fischer, P. Podolin, M. Zijlstra, R. Jaenisch, and L. Peterson. 1994. b2-microglobulin-deficient NOD mice do not develop insulinitis or diabetes. <i>Diabetes</i> 43:500.		
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